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?What will business software look like in the future? And how will it be developed? This book covers the proceedings of the first international conference on Future Business Software – a new think tank discussing the trends in enterprise software with speakers from Europe's most successful software companies and the leading research institutions. The articles focus on two of the most prominent trends in the field: emergent software and agile development processes. "Emergent Software" is a new paradigm of software development that addresses the highly complex requirements of tomorrow's business software and aims at dynamically and flexibly combining a business

software solution’s different components in order to fulfill customers’ needs with a minimum of effort. Agile development processes are the response of software technology to the implementation of diverse and rapidly changing software requirements. A major focus is on the minimization of project risks, e.g. through short, iterative development cycles, test-driven development and an intensive culture of communication. InfoWorld is targeted to Senior IT professionals. Content is segmented into Channels and Topic Centers. InfoWorld also celebrates people, companies, and projects. This IBM Redbooks publication is a companion to IBM System Storage Business Continuity: Part 1 Planning Guide, SG24-6547 . We assume that the reader of this book has understood the concepts of Business Continuity planning described in that book. In this book we explore IBM System Storage solutions for Business Continuity, within the three segments of Continuous Availability, Rapid Recovery, and Backup and Restore. We position these solutions within the Business Continuity tiers. We describe, in general, the solutions available in each segment, then present some more detail on many of the products. In each case, the reader is pointed to sources of more information. This book constitutes the refereed proceedings of the 12th IFIP WG 5.11 International Symposium on Environmental Software Systems, ISESS 2017, held in Zadar, Croatia, in May 2017. The 35 revised full papers presented together with 4 keynote lectures were carefully reviewed and selected from 46 submissions. The papers deal with environmental challenges and try to provide solutions using forward-looking and leading-edge IT technology. They are organized in the following topical sections: air and climate; water and hydrosphere; health and biosphere; risk and disaster management; information systems; and modelling, visualization and decision support. For more than 40 years, Computerworld has been the leading source of technology news and information for IT influencers worldwide. Computerworld's award-winning Web site (Computerworld.com), twice-monthly publication, focused conference series and custom research form the hub of the world's largest global IT media network. For more than 40 years, Computerworld has been the leading source of technology news and information for IT influencers worldwide. Computerworld's award-winning Web site (Computerworld.com), twice-monthly publication, focused conference series and custom research form the hub of the world's largest global IT media network. Software-Defined Data Infrastructures Essentials provides fundamental coverage of physical, cloud, converged, and virtual server storage I/O networking technologies, trends, tools, techniques, and

tradecraft skills. From webscale, software-defined, containers, database, key-value store, cloud, and enterprise to small or medium-size business, the book is filled with techniques, and tips to help develop or refine your server storage I/O hardware, software, and services skills. Whether you are new to data infrastructures or a seasoned pro, you will find this comprehensive reference indispensable for gaining as well as expanding experience with technologies, tools, techniques, and trends. We had a front row seat watching Greg present live in our education workshop seminar sessions for ITC professionals in the Netherlands material that is in this book. We recommend this amazing book to expand your converged and data infrastructure knowledge from beginners to industry veterans. —Gert and Frank Brouwer, Brouwer Storage Consultancy Software-Defined Data Infrastructures Essentials provides the foundational building blocks to improve your craft in serval areas including applications, clouds, legacy, and more. IT professionals, as well as sales professionals and support personnel, stand to gain a great deal by reading this book.—Mark McSherry, Oracle Regional Sales Manager Looking to expand your data infrastructure IQ? From CIOS to operations, sales to engineering, this book is a comprehensive reference, a must read for IT infrastructure professionals, beginners to seasoned experts.—Tom Becchetti, Advisory Systems Engineer Greg Schulz has provided a complete ‘toolkit’ for storage management along with the background and framework for the storage or data infrastructure professional or those aspiring to become one.—Greg Brunton, Experienced Storage and Data Management Professional InfoWorld is targeted to Senior IT professionals. Content is segmented into Channels and Topic Centers. InfoWorld also celebrates people, companies, and projects. Software requirements for engineering and scientific applications are almost always computational and possess an advanced mathematical component. However, an application that calls for calculating a statistical function, or performs basic differentiation of integration, cannot be easily developed in C++ or most programming languages. In such a case, the engineer or scientist must assume the role of software developer. And even though scientists who take on the role as programmer can sometimes be the originators of major software products, they often waste valuable time developing algorithms that lead to untested and unreliable routines. Software Solutions for Engineers and Scientists addresses the ever present demand for professionals to develop their own software by supplying them with a toolkit and problem-solving resource for developing computational applications. The authors' provide shortcuts to avoid complications, bearing in mind the

technical and mathematical ability of their audience. The first section introduces the basic concepts of number systems, storage of numerical data, and machine arithmetic. Chapters on the Intel math unit architecture, data conversions, and the details of math unit programming establish a framework for developing routines in engineering and scientific code. The second part, entitled Application Development, covers the implementation of a C++ program and flowcharting. A tutorial on Windows programming supplies skills that allow readers to create professional quality programs. The section on project engineering examines the software engineering field, describing its common qualities, principles, and paradigms. This is followed by a discussion on the description and specification of software projects, including object-oriented approaches to software development. With the introduction of this volume, professionals can now design effective applications that meet their own field-specific requirements using modern tools and technology. Poor performance is one of the main quality-related shortcomings that cause software projects to fail. Thus, the need to address performance concerns early during the software development process is fully acknowledged, and there is a growing interest in the research and software industry communities towards techniques, methods and tools that permit to manage system performance concerns as an integral part of software engineering. Model-based software performance analysis introduces performance concerns in the scope of software modeling, thus allowing the developer to carry on performance analysis throughout the software lifecycle. With this book, Cortellessa, Di Marco and Inverardi provide the cross-knowledge that allows developers to tackle software performance issues from the very early phases of software development. They explain the basic concepts of performance analysis and describe the most representative methodologies used to annotate and transform software models into performance models. To this end, they go all the way from performance primers through software and performance modeling notations to the latest transformation-based methodologies. As a result, their book is a self-contained reference text on software performance engineering, from which different target groups will benefit: professional software engineers and graduate students in software engineering will learn both basic concepts of performance modeling and new methodologies; while performance specialists will find out how to investigate software performance model building. Decision-aiding software is applied in this book to government, personal decisions, law, teaching, decision-analysis research, cross-national decision-making, business and politics. A key question for

China, which has for some time been a leading global manufacturing base, is whether China can progress from being a traditional centre of manufacturing to becoming a centre for innovation. In this book, Shang-Ling Jui focuses on China's software industry and examines the complete innovation value chain of software in its key phases of innovation, standards definition, development and marketing. He argues that, except for software development, these key phases are of high added-value and that without adopting the concept of independent innovation as a guiding ideology, China's software enterprises – like India's – would have an uncertain future. In other words, the lack of core competence in the development of China's software industry might restrain the industry from taking the leading position and drive it towards becoming no more than the software workshop of multinationals over the long term. Shang-Ling Jui contends that China's software industry should and can possess its own complete innovation value chain. Having worked in China's software industry for many years, the author provides an inside-out perspective – identifying the strengths and weaknesses of the industry and defining the challenges in China's transition from "Made in China" to "Innovated in China." Reliability Engineering and Quality Management provides a competitive advantage and market leadership in a global environment where market barriers are fast disappearing both in the domain of cutting edge and contemporary technologies, manufacturing, process and service sectors like information technology sector. The growth of Q & R has been fuelled by increasing sophistication and complexity of system and organisational awareness to produce and market high quality and reliability products and services by the consumer and global market pressures. This subject being interdisciplinary in nature has also brought about a convergence of numerous solution strategies employing Fuzzy Sets, Artificial Neural Nets, Modeling and Simulation, Knowledge Base Systems, Operations Research and Mathematical Programming to achieve high Reliability. This book is intended for both the beginner and practitioner from manufacturing and service sector, research laboratories and academic institutions. This book is unique also as it gives an insight into the current practices and future directions. Renewable Energy Systems for Building Designers presents a comprehensive introduction to the latest resources and technologies used in high performance and net zero energy buildings, with a practical focus on the design and integration of these systems. This textbook and convenient reference offers a single-source guide to renewable technologies, balancing broad knowledge with the details of implementation crucial for successful

sustainable design. It equips students and professionals with foundations and critical information needed to confidently plan for and meet the highest standards of energy efficiency in new construction and retrofitted buildings. Part I of the book establishes key principles of renewable systems, power production, and design for climate, introducing energy modeling and measurements of performance. Part II focuses in more depth on renewable energy systems, including photovoltaics, heat pumps, solar thermal, and more. Dedicated chapters break down the fundamental concepts behind each renewable technology and present guidelines for configuration and installation including system requirements, equipment specification, sizing, and location of components. Part III discusses topics relevant across renewable systems, including energy storage, control and monitoring, and cost/payback calculation. Part IV comprises case studies of exemplary renewable energy projects. Features: Covers resources and technologies including photovoltaics, solar thermal hot water, heat pumps, biomass, wind and microhydro turbines, marine renewable energy, deep cycle rechargeable batteries, and system controllers. Compiles up-to-date, essential information on designing with renewable systems in one location, organized by technology for easy reference. Presents clear explanations of all concepts and system aspects, using US/SI units and full-color diagrams and illustrations throughout. Features case studies of renewable energy systems in completed projects, demonstrating a range of climate specific applications. Includes study questions, a comprehensive guide to terminology and acronyms, spreadsheets for calculations, system sizing worksheets, and additional online resources. Renewable Energy Systems for Building Designers: Fundamentals of Net Zero and High Performance Design will serve as an essential introduction and enduring reference for students of architecture, engineering, construction, and building science. Equally valuable as a professional resource, it will quickly become the go-to guide for energy efficient design for practitioners in these areas. While covering the fascinating history of wind power as a whole, this timely handbook focuses on current technological developments and the promise—and pitfalls—of wind energy as part of the world's energy future. • Serves as a comprehensive introduction to the topic and a guide for further study • Features expert essays on issues and controversies related to the use of wind energy • Covers the dangers wind power poses to wildlife as well as its impacts on communities' economic development • Profiles key individuals and organizations in the field • Includes statistical information on the production and consumption of wind

energy in the United States and around the world For more than 40 years, Computerworld has been the leading source of technology news and information for IT influencers worldwide. Computerworld's award-winning Web site (Computerworld.com), twice-monthly publication, focused conference series and custom research form the hub of the world's largest global IT media network. This book highlights recent research on intelligent systems and nature-inspired computing. It presents 130 selected papers from the 19th International Conference on Intelligent Systems Design and Applications (ISDA 2020), which was held online. The ISDA is a premier conference in the field of computational intelligence, and the latest installment brought together researchers, engineers and practitioners whose work involves intelligent systems and their applications in industry. Including contributions by authors from 40 countries, the book offers a valuable reference guide for all researchers, students and practitioners in the fields of Computer Science and Engineering. For more than 20 years, Network World has been the premier provider of information, intelligence and insight for network and IT executives responsible for the digital nervous systems of large organizations. Readers are responsible for designing, implementing and managing the voice, data and video systems their companies use to support everything from business critical applications to employee collaboration and electronic commerce. The aim of this book is to clarify what is involved in using decision-aiding software in evaluative decision-making at a non-technical level. Topics covered include the skills that software enhances, the obstacles that it helps overcome, and the applications to diverse fields. For more than 40 years, Computerworld has been the leading source of technology news and information for IT influencers worldwide. Computerworld's award-winning Web site (Computerworld.com), twice-monthly publication, focused conference series and custom research form the hub of the world's largest global IT media network. For more than 40 years, Computerworld has been the leading source of technology news and information for IT influencers worldwide. Computerworld's award-winning Web site (Computerworld.com), twice-monthly publication, focused conference series and custom research form the hub of the world's largest global IT media network. PCMag.com is a leading authority on technology, delivering Labs-based, independent reviews of the latest products and services. Our expert industry analysis and practical solutions help you make better buying decisions and get more from technology. The only book that covers fundamental shipboard design and verification concepts from

individual devices to the system level Shipboard electrical system design and development requirements are fundamentally different from utility-based power generation and distribution requirements. Electrical engineers who are engaged in shipbuilding must understand various design elements to build both safe and energy-efficient power distribution systems. This book covers all the relevant technologies and regulations for building shipboard power systems, which include commercial ships, naval ships, offshore floating platforms, and offshore support vessels. In recent years, offshore floating platforms have been frequently discussed in exploring deep-water resources such as oil, gas, and wind energy. This book presents step-by-step shipboard electrical system design and verification fundamentals and provides information on individual electrical devices and practical design examples, along with ample illustrations to back them. In addition, Shipboard Power Systems Design and Verification Fundamentals: Presents real-world examples and supporting drawings for shipboard electrical system design Includes comprehensive coverage of domestic and international rules and regulations (e.g. IEEE 45, IEEE 1580) Covers advanced devices such as VFD (Variable Frequency Drive) in detail This book is an important read for all electrical system engineers working for shipbuilders and shipbuilding subcontractors, as well as for power engineers in general. Addressing the most dynamic areas of the ever-changing telecommunications landscape, the second edition of the bestselling CRC Handbook of Modern Telecommunications once again brings together the top minds and industry pioneers in wireless communication networks, protocols, and devices. In addition to new discussions of radio frequency identification (RFID) and wireless sensor networks, including cognitive radio networks, this important reference systematically addresses network management and administration, as well as network organization and governance, topics that have evolved since the development of the first edition. Extensively updated and expanded, this second edition provides new information on: Wireless sensor networks RFID Architectures Intelligent Support Systems Service delivery integration with the Internet Information life cycle and service level management Management of emerging technologies Web performance management Business intelligence and analytics The text details the latest in voice communication techniques, advanced communication concepts, network organization, governance, traffic management, and emerging trends. This comprehensive handbook provides telecommunications professionals across all fields with ready access to the knowledge they require and arms them with

the understanding of the role that evolving technologies will play in the development of the telecommunications systems of tomorrow. For more than 40 years, Computerworld has been the leading source of technology news and information for IT influencers worldwide. Computerworld's award-winning Web site (Computerworld.com), twice-monthly publication, focused conference series and custom research form the hub of the world's largest global IT media network. For more than 40 years, Computerworld has been the leading source of technology news and information for IT influencers worldwide. Computerworld's award-winning Web site (Computerworld.com), twice-monthly publication, focused conference series and custom research form the hub of the world's largest global IT media network. For more than 40 years, Computerworld has been the leading source of technology news and information for IT influencers worldwide. Computerworld's award-winning Web site (Computerworld.com), twice-monthly publication, focused conference series and custom research form the hub of the world's largest global IT media network. Many companies have a complex process for purchasing software that is required by IT projects, or better, by the business. Usually software is purchased by a centralized procurement function, and is either purchased on a project-by-project basis or as a large periodic software contract. Unfortunately purchasing software products does not automatically mean that these products are exploited throughout the organization providing the maximum possible value to the business units. Several issues call for a structured approach that gets the most business value out of software already purchased. The objectives of this approach are to: Create maximum awareness throughout the organization of the software purchased. Track software use in IT projects and act if products are not used at all, used improperly, or insufficiently used. Facilitate use of software products in projects, especially when software products are complex and require a lot of integration. We can summarize the overall objective of this approach as ensuring that the business units in an organization obtain the maximum possible value of software products purchased, which is also the scope of this IBM® Redbooks® publication. BLACK ENTERPRISE is the ultimate source for wealth creation for African American professionals, entrepreneurs and corporate executives. Every month, BLACK ENTERPRISE delivers timely, useful information on careers, small business and personal finance. For more than 40 years, Computerworld has been the leading source of technology news and information for IT influencers worldwide. Computerworld's award-winning Web site (Computerworld.com), twice-

monthly publication, focused conference series and custom research form the hub of the world's largest global IT media network. BLACK ENTERPRISE is the ultimate source for wealth creation for African American professionals, entrepreneurs and corporate executives. Every month, BLACK ENTERPRISE delivers timely, useful information on careers, small business and personal finance. For more than 40 years, Computerworld has been the leading source of technology news and information for IT influencers worldwide. Computerworld's award-winning Web site (Computerworld.com), twice-monthly publication, focused conference series and custom research form the hub of the world's largest global IT media network. SAP is a market leader in enterprise business application software. SAP solutions provide a rich set of composable application modules, and configurable functional capabilities that are expected from a comprehensive enterprise business application software suite. In most cases, companies that adopt SAP software remain heterogeneous enterprises running both SAP and non-SAP systems to support their business processes. Regardless of the specific scenario, in heterogeneous enterprises most SAP implementations must be integrated with a variety of non-SAP enterprise systems: Portals Messaging infrastructure Business process management (BPM) tools Enterprise Content Management (ECM) methods and tools Business analytics (BA) and business intelligence (BI) technologies Security Systems of record Systems of engagement The tooling included with SAP software addresses many needs for creating SAP-centric environments. However, the classic approach to implementing SAP functionality generally leaves the business with a rigid solution that is difficult and expensive to change and enhance. When SAP software is used in a large, heterogeneous enterprise environment, SAP clients face the dilemma of selecting the correct set of tools and platforms to implement SAP functionality, and to integrate the SAP solutions with non-SAP systems. This IBM® Redbooks® publication explains the value of integrating IBM software with SAP solutions. It describes how to enhance and extend pre-built capabilities in SAP software with best-in-class IBM enterprise software, enabling clients to maximize return on investment (ROI) in their SAP investment and achieve a balanced enterprise architecture approach. This book describes IBM Reference Architecture for SAP, a prescriptive blueprint for using IBM software in SAP solutions. The reference architecture is focused on defining the use of IBM software with SAP, and is not intended to address the internal aspects of SAP components. The chapters of this book provide a specific reference architecture for many of the architectural

domains that are each important for a large enterprise to establish common strategy, efficiency, and balance. The majority of the most important architectural domain topics, such as integration, process optimization, master data management, mobile access, Enterprise Content Management, business intelligence, DevOps, security, systems monitoring, and so on, are covered in the book. However, there are several other architectural domains which are not included in the book. This is not to imply that these other architectural domains are not important or are less important, or that IBM does not offer a solution to address them. It is only reflective of time constraints, available resources, and the complexity of assembling a book on an extremely broad topic. Although more content could have been added, the authors feel confident that the scope of architectural material that has been included should provide organizations with a fantastic head start in defining their own enterprise reference architecture for many of the important architectural domains, and it is hoped that this book provides great value to those reading it. This IBM Redbooks publication is targeted to the following audiences: Client decision makers and solution architects leading enterprise transformation projects and wanting to gain further insight so that they can benefit from the integration of IBM software in large-scale SAP projects. IT architects and consultants integrating IBM technology with SAP solutions. For more than 40 years, Computerworld has been the leading source of technology news and information for IT influencers worldwide. Computerworld's award-winning Web site (Computerworld.com), twice-monthly publication, focused conference series and custom research form the hub of the world's largest global IT media network. For more than 40 years, Computerworld has been the leading source of technology news and information for IT influencers worldwide. Computerworld's award-winning Web site (Computerworld.com), twice-monthly publication, focused conference series and custom research form the hub of the world's largest global IT media network.